

I claim:

1. A pipe connector comprising:

(a) a sphinctoral band;

(b) a coupling sleeve having an annular wall extending
5 through the sphinctoral band, the coupling sleeve
having at least a first traction pin aperture extending
through the annular wall; and

(c) at least a first traction pin fixedly attached to the
sphinctoral band and extending inwardly therefrom, the
10 at least first traction pin extending through the at
least first traction pin aperture, the at least first
traction pin being moveable between an inwardly
extended pipe engaging position and an outwardly
retracted pipe disengaging position.

15
2. The pipe connector of Claim 1 wherein the sphinctoral
band comprises an end connector selected from the group
consisting of over-center buckles, worm gear buckles, flexible
pawl buckles, double eye turn back buckles, roll back fasteners,
20 bandit band fasteners, cable tie fasteners and pre-formed clamp
fasteners.

3. The pipe connector of Claim 2 further comprising at
least a second traction pin aperture wherein the traction pin

apertures are arranged annularly around the coupling sleeve's annular wall.

4. The pipe connector of Claim 3 wherein each traction pin
5 has a distal end adapted for frictional pipe engagement.

5. The pipe connector of Claim 4 wherein the adaptations
for frictional pipe engagement comprise configurations selected
from the group consisting of spike points, blade edges, and
10 serrated teeth.

6. The pipe connector of Claim 5 wherein the coupling
sleeve's annular wall has an annular inner surface, and further
comprising pipe sealing means connected operably to the annular
15 inner surface.

7. The pipe connector of Claim 6 wherein the pipe sealing
means comprises an "O" ring nestingly received within a channel
within the annular inner surface of the coupling sleeve's annular
20 wall.

8. The pipe connector of Claim 7 wherein the sphinctoral
band and the traction pins comprise steel, and wherein the
coupling sleeve comprises a material selected from the group
25 consisting of plastic, steel, brass, and copper.

9. A pipe connector comprising:

- (a) first and second sphinctoral bands;
- (b) a coupling sleeve having first and second annular walls respectively extending through the first and second sphinctoral bands, the first and second annular walls having first and second pluralities of traction pin apertures respectively extending therethrough; and,
- (c) first and second pluralities of traction pins respectively attached to the first and second sphinctoral bands and respectively extending inwardly therefrom, each first traction pin extending through one of the first traction pin apertures, and each second traction pin extending through one of the second traction pin apertures, the first and second traction pins being moveable between inwardly extended pipe engaging positions and outwardly retracted pipe disengaging positions.

10. The pipe connector of Claim 9 wherein the coupling sleeve's second annular wall is oriented at an angle with respect to the coupling sleeve's first annular wall.

11. The pipe connector of Claim 10 wherein the first and second sphinctoral bands comprise end connectors selected from the group consisting of over-center buckles, worm gear buckles,

flexible pawl buckles, double eye turn back buckles, roll back fasteners, bandit band fasteners, cable tie fasteners, and pre-formed clamp fasteners.

5 12. The pipe connector of Claim 11 wherein the first and second traction pin apertures are respectively arranged annularly around the coupling sleeve's first and second annular walls.

10 13. The pipe connector of Claim 12 wherein each first traction pin and each second traction pin has a distal end adapted for frictional pipe engagement.

15 14. The pipe connector of Claim 13 wherein the adaptations for frictional pipe engagement comprise configurations selected from the group consisting of spike points, blade edges and serrated teeth.

20 15. The pipe connector of Claim 14 wherein the coupling sleeve's first and second walls respectively have first and second annular inner surfaces, and further comprising first and second pipe sealing means respectively connected operably to the first and second annular inner surfaces.

25 16. The pipe connector of Claim 15 wherein the first and second pipe sealing means comprise first and second "O" rings

respectively nestingly received within channels within the annular inner surfaces of the coupling sleeve's walls.

17. The pipe connector of Claim 16 wherein the first and
5 second sphinctoral bands and the first and second traction pins
comprise steel, and wherein the coupling sleeve comprises a
material selected from the group consisting of plastic, copper,
steel, and brass.